



## SEQUENCE LISTING

&lt;110&gt; BAYER CORPORATION

<120> Pituitary Adenylate Cyclase Activating Peptide (PACAP) Receptor  
(R3) Agonists and Their Pharmacological Methods of Use

&lt;130&gt; Bayer

&lt;150&gt; 09/407,832

&lt;151&gt; 1999-09-28

&lt;150&gt; 09/595,280

&lt;151&gt; 2000-06-15

&lt;160&gt; 343

&lt;170&gt; PatentIn version 3.0

&lt;210&gt; 1

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; synthetic construct

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (28)..(28)

&lt;223&gt; AMIDATION

&lt;400&gt; 1

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Leu	Asn
			20				25				

&lt;210&gt; 2

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; synthetic construct

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (38)..(38)

&lt;223&gt; AMIDATION

&lt;400&gt; 2

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu	Gly	Lys	Arg	Tyr	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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Gln Arg Val Lys Asn Lys  
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His	Ala	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Val	Ser	Ser	Tyr	Leu	Glu	Gly
1				5					10				15		

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg  
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His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5					10				15		

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
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 <223> AMIDATION

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1				5					10					15	

Xaa	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Asp	Leu	Lys	Lys	Gly	Gly	Thr
			20				25						30	

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1				5					10					15	

Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Asp	Leu	Lys	Lys	Gly	Gly	Thr
			20				25						30	

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Leu Ala Ala Lys Lys Tyr Leu Asn Asp Leu Lys Lys Gly Gly Thr  
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 1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Asn Asp Leu Lys Lys Gly Gly Thr  
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 1 5 10 15  
  
 Leu Ala Ala Lys Lys Tyr Leu Asn Asp Leu Lys Lys  
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 1 5 10 15  
  
 Leu Ala Ala Lys Lys Tyr Leu Asn Asp Ile Lys Lys  
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 Met Ala Val Lys Lys Tyr Leu Asn Asp Leu Lys Lys Gly Gly Thr  
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 Trp Cys Glu Pro Gly Trp Cys Arg  
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 1 5 10 15  
  
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Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Lys	Gly	Gly	Thr
			20				25						30	

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1				5					10					15	

Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Asp	Ile	Lys	Asn	Gly	Gly	Thr
			20				25						30	

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His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Leu	Ala	Val	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Lys	Gly	Gly	Thr
			20				25						30	

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 1 5 10 15  
  
 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys Gly Gly Thr  
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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Lys  
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1 5 10 15

Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Lys  
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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
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Leu Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Leu Asn  
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Met Ala Val Lys Lys Tyr Leu Asn Asp Ile Leu Asn  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Leu Lys  
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 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys Lys Arg Tyr  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys Lys Arg  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys Lys  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr  
 20 25 30

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln

1	5	10	15
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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Lys Lys Arg Tyr  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Lys Lys Arg  
20 25 30

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Lys Lys  
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1 5 10 15

Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr  
 20 25 30

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 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Lys  
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Ile Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Lys  
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<400> 55  
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<400> 57

His Ser Asp Gly Ile Phe Thr Glu Ser Tyr Ser Arg Tyr Arg Lys Gln  
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Met Ala Val Lys Lys Tyr Leu Ala Ala Leu Lys Lys Lys Arg Tyr Lys  
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Gln Arg Val Lys Asn Lys  
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<400> 58

His Ser Asp Ala Val Phe Thr Glu Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

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<400> 59

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ser Ala Val Arg His Gly Gly Thr  
20 25 30

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<400> 60

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Gln Gly Gly Thr  
20 25 30

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<223> AMIDATION

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His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
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Met Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Lys Tyr Leu Ala Ala  
20 25 30

Val Arg His Gly  
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<400> 62

Ser Trp Cys Glu Pro Gly Trp Cys Arg His Ser Asp Ala Val Phe Thr  
1 5 10 15

Glu Asn Tyr Thr Lys Leu Arg Lys Gln Leu Ala Ala Lys Lys Tyr Leu  
20 25 30

Asn Asp Leu Lys Lys Gly Gly Thr  
35 40

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<222> (1)..(31)

<400> 63

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Leu Ala Ala Lys Lys Tyr Leu Asn Asp Ile Leu Lys Gly Gly Thr
          20          25          30

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<400> 64

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Leu Ala Ala Lys Lys Tyr Leu Asn Asp Ile Leu Asn Gly Gly Thr
          20          25          30

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<400> 65

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Leu Ala Val Lys Lys Tyr Leu Asn Asp Ile Leu Lys Gly Gly Thr
          20          25          30

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<400>  66

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1          5          10          15

Leu Ala Ala Lys Lys Tyr Leu Ala Asp Val Lys Lys Gly Gly Thr
          20          25          30

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<400>  67

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1          5          10          15

Leu Ala Ala Lys Lys Tyr Leu Ala Asp Val Lys Lys
          20          25

<210>  68
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<400>  68

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1          5          10          15

Leu Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Lys
          20          25

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 1 5 10 15  
  
 Met Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Lys  
 20 25  
  
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 <400> 70  
  
 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15  
  
 Val Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys  
 20 25  
  
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 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15  
  
 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
 20 25 30  
  
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 <400> 72  
  
 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15  
  
 Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr  
 20 25 30  
  
 <210> 73  
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 <400> 73  
  
 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15  
  
 Leu Ala Ala Lys Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr  
 20 25 30  
  
 <210> 74  
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 <400> 74  
  
 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15  
  
 Val Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr  
 20 25 30  
  
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<222>  (1)..(31)

<400>  75

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr
          20          25          30

<210>  76
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<400>  76

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr
          20          25          30

<210>  77
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<220>
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<400>  77

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr
          20          25          30

<210>  78
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<220>
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<222> (1)..(31)

<400> 78

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 79

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<212> PRT

<213> Artificial

<220>

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<220>

<221> PEPTIDE

<222> (1)..(31)

<400> 79

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala His Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 80

<211> 31

<212> PRT

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<220>

<221> PEPTIDE

<222> (1)..(31)

<400> 80

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys His Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 81

<211> 31

<212> PRT

<213> Artificial

<220>

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<220>

<221> PEPTIDE

<222> (1)..(31)

<400> 81

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Ala His Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 82

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<212> PRT

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<220>

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<222> (1)..(31)

<400> 82

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Ala Lys His Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 83

<211> 30

<212> PRT

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<220>

<221> PEPTIDE

<222> (1)..(30)

<400> 83

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Lys Lys Arg  
20 25 30

<210> 84

<211> 30

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<220>

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<221> PEPTIDE

<222> (1)..(30)

<400> 84

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys Lys Arg  
20 25 30

<210> 85

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<221> PEPTIDE

<222> (1)..(31)

<400> 85

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 86

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<222> (1)..(30)

<400> 86

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Lys Lys Arg  
20 25 30

<210> 87

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<220>

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<222> (1)..(29)

<400> 87

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Lys Lys  
 20 25

<210> 88  
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<400> 88

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr  
 20 25 30

<210> 89  
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<220>  
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<400> 89

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys Arg Tyr  
 20 25 30

<210> 90  
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<400> 90

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys Arg  
 20 25 30

<210> 91  
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 <212> PRT  
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<220>  
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<400> 91

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys  
 20 25

<210> 92  
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<400> 92

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys  
 20 25

<210> 93  
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<400> 93

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln



1	5	10	15
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Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys Arg Tyr  
20 25 30

<210> 94  
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<400> 94

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys Arg  
20 25 30

<210> 95  
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<400> 95

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys  
20 25

<210> 96  
<211> 31  
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<220>  
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<222> (1)..(31)

<400> 96

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Asn Lys Arg Tyr  
                   20                  25                  30

<210> 97  
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<400> 97

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1                  5                  10                  15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Asn Lys Arg  
                   20                  25                  30

<210> 98  
 <211> 29  
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 <222> (1)..(29)

<400> 98

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1                  5                  10                  15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Asn Lys  
                   20                  25

<210> 99  
 <211> 30  
 <212> PRT  
 <213> Artificial

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<400> 99

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
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Met Ala Cys Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
                   20                                  25                                  30

<210> 100  
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<400> 100

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
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Met Ala Asp Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
                   20                                  25                                  30

<210> 101  
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 <222> (1)..(30)

<400> 101

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1                  5                                  10                                  15

Met Ala Glu Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
                   20                                  25                                  30

<210> 102  
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 <222> (1)..(30)

<400> 102

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1                  5                                  10                                  15

Met Ala Phe Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg

	20	25	30
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<210> 103  
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<400> 103

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

  

Met	Ala	Gly	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20				25					30	

<210> 104  
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 <212> PRT  
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 <222> (1)..(30)

<400> 104

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

  

Met	Ala	His	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20				25					30	

<210> 105  
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 <212> PRT  
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<220>  
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 <222> (1)..(30)

<400> 105

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

  

Met	Ala	Ile	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20				25					30	

<210> 106  
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<400> 106

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	
Met	Ala	Lys	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg		
		20						25					30		

<210> 107  
 <211> 30  
 <212> PRT  
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 <222> (1)..(30)

<400> 107

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	
Met	Ala	Leu	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg		
		20						25					30		

<210> 108  
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 <212> PRT  
 <213> Artificial

<220>  
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 <222> (1)..(30)

<400> 108

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	
Met	Ala	Met	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg		
		20						25					30		

<210> 109  
 <211> 30  
 <212> PRT  
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<220>  
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 <222> (1)..(30)

<400> 109

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Asn	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 110  
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<400> 110

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Pro	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 111  
 <211> 30  
 <212> PRT  
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<400> 111

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Gln	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

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<400> 112

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Arg	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20				25						30

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<400> 113

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ser	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20				25						30

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<400> 114

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Thr	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20				25						30

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<400> 115

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
		20					25						30

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<400> 116

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Trp	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
		20					25						30

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<400> 117

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Tyr	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
		20					25						30

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<400> 118

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Ala	Asn	Lys	Arg
			20				25						30

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<400> 119

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Cys	Asn	Lys	Arg
			20				25						30

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<400> 120

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Asp	Asn	Lys	Arg
			20				25						30

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<222> (1)..(30)

<400> 121

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Glu Asn Lys Arg
          20          25          30

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<400> 122

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Phe Asn Lys Arg
          20          25          30

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<400> 123

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Gly Asn Lys Arg
          20          25          30

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 1 5 10 15  
  
 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile His Asn Lys Arg  
 20 25 30  
  
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 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15  
  
 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Ile Asn Lys Arg  
 20 25 30  
  
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 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15  
  
 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Met Asn Lys Arg  
 20 25 30  
  
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<400> 127

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Asn Asn Lys Arg
          20          25          30

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<400> 128

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Pro Asn Lys Arg
          20          25          30

<210> 129
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<400> 129

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Gln Asn Lys Arg
          20          25          30

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 1 5 10 15  
  
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 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15  
  
 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Ser Asn Lys Arg  
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 1 5 10 15  
  
 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Thr Asn Lys Arg  
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 20 25 30  
  
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 1 5 10 15  
  
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 20 25 30  
  
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 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15  
  
 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Tyr Asn Lys Arg  
 20 25 30  
  
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<221>  PEPTIDE
<222>  (1)..(30)

<400>  136

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Ala Arg
          20          25          30

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<220>
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<222>  (1)..(30)

<400>  137

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Cys Arg
          20          25          30

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<222>  (1)..(30)

<400>  138

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Asp Arg
          20          25          30

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<220>
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<222> (1)..(30)

<400> 139

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Glu Arg  
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<400> 140

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Phe Arg  
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<221> PEPTIDE

<222> (1)..(30)

<400> 141

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Gly Arg  
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<222> (1)..(30)



<400> 142

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn His Arg  
20 25 30

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<220>

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<400> 143

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Ile Arg  
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<221> PEPTIDE

<222> (1)..(30)

<400> 144

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Leu Arg  
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<221> PEPTIDE

<222> (1)..(30)

<400> 145

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Met Arg  
                   20                  25                  30

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 <222> (1)..(30)

<400> 146

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1                  5                  10                  15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Asn Arg  
                   20                  25                  30

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<400> 147

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1                  5                  10                  15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Pro Arg  
                   20                  25                  30

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<400> 148

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1                  5                  10                  15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Gln Arg  
                   20                  25                  30

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<400> 149

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1                  5                  10                  15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Arg Arg  
                   20                  25                  30

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<400> 150

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                   20                  25                  30

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<400> 151

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1                  5                  10                  15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Thr Arg

	20	25	30
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<210> 152  
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His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Val	Arg
			20				25						30

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His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Trp	Arg
			20				25						30

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His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Tyr	Arg
			20				25						30

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<222> (1)..(30)

<400> 155

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Ala  
20 25 30

<210> 156

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<222> (1)..(30)

<400> 156

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Asp  
20 25 30

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<221> PEPTIDE

<222> (1)..(30)

<400> 157

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Glu  
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<222> (1)..(30)

<400> 158

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Phe
      20          25          30

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<400> 159

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Gly
      20          25          30

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<400> 160

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys His
      20          25          30

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 1 5 10 15  
  
 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Ile  
 20 25 30  
  
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 <400> 162  
  
 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15  
  
 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Lys  
 20 25 30  
  
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 1 5 10 15  
  
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<222>  (1)..(30)

<400>  164

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Met
      20          25          30

<210>  165
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<400>  165

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Asn
      20          25          30

<210>  166
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<400>  166

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Pro
      20          25          30

<210>  167
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<220>
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<400> 167

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Gln
          20          25          30

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<400> 168

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Ser
          20          25          30

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<400> 169

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Thr
          20          25          30

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 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15  
  
 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Val  
 20 25 30  
  
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 <400> 171  
  
 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15  
  
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 20 25 30  
  
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 <400> 172  
  
 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15  
  
 Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Tyr  
 20 25 30  
  
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<221> PEPTIDE
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<400> 173

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr Ser
          20          25          30

Trp Cys Glu Pro Gly Trp Cys Arg
          35          40

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<400> 174

His Ser Asp Ala Val Phe Thr Asp Asp Tyr Thr Arg Leu Arg Lys Glu
1          5          10          15

Val Ala Ala Lys Lys Tyr Leu Glu Ser Ile Lys Asp Lys Arg Tyr
          20          25          30

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<400> 175

Glu Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1          5          10          15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
          20          25

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<223> AMIDATION

<400> 176

His Lys Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
20 25

<210> 177  
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<223> AMIDATION

<400> 177

His Ser Lys Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
20 25

<210> 178  
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<400> 178

His Ser Asp Lys Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
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<400> 179

His Ser Asp Gly Lys Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
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His Ser Asp Gly Ile Lys Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
20 25

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<223> AMIDATION

<400> 181

His Ser Asp Gly Ile Phe Lys Asp Ser Tyr Ser Arg Tyr Arg Lys Gln

1	5	10	15
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Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
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<210> 182  
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<400> 182

His Ser Asp Gly Ile Phe Thr Lys Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
20 25

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His Ser Asp Gly Ile Phe Thr Asp Lys Tyr Ser Arg Tyr Arg Lys Gln
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Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
20 25

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His Ser Asp Gly Ile Phe Thr Asp Ser Lys Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
20 25

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<222> (27)..(27)

<223> AMIDATION

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His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Lys Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
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<222> (27)..(27)

<223> AMIDATION

<400> 186

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Glu Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
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<400> 187

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Lys Arg Lys Gln  
 1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
 20 25

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<400> 188

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Glu Lys Gln  
 1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
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<400> 189

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Glu Gln  
 1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
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<210> 190  
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His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Lys  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
20 25

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His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Lys Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
20 25

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His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Lys Val Lys Lys Tyr Leu Ala Ala Val Leu  
20 25

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His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Ala Ala Val Leu  
20 25

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His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Glu Lys Tyr Leu Ala Ala Val Leu  
20 25

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His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Glu Tyr Leu Ala Ala Val Leu  
20 25

<210> 196

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<222> (27)..(27)

<223> AMIDATION

<400> 196

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Lys Leu Ala Ala Val Leu  
20 25

<210> 197

<211> 27

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<223> AMIDATION

<400> 197

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Lys Ala Ala Val Leu  
20 25

<210> 198

<211> 27

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<400> 198

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Lys Ala Val Leu  
20 25

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<400> 199

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Lys Val Leu  
20 25

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<400> 200

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Lys Leu  
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<222> (27)..(27)  
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<400> 201

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Lys  
20 25

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<400> 202

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Arg Ile  
20 25 30

<210> 203  
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<222> (1)..(30)

<400> 203

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Asn Ser Ile Lys Asn Arg Ile  
20 25 30

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<400> 204

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Lys	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Arg	Ile
		20					25						30

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<211> 30

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<222> (1)..(30)

<400> 205

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Arg	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Arg	Ile
			20				25						30

<210> 206

<211> 30

<212> PRT

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<220>

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<220>

<221> PEPTIDE

<222> (1)..(30)

<400> 206

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ser	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Arg	Ile
			20				25						30

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<222> (1)..(30)

<400> 207

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
          20          25          30

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<400> 208

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Gly Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
          20          25          30

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<400> 209

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Lys Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
          20          25          30

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Arg Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
          20          25          30

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<400> 211

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ser Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
          20          25          30

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<400> 212

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
          20          25          30

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<400> 213

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Gly Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
          20          25          30

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<400> 214

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Lys Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
          20          25          30

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<400> 215

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Arg Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
          20          25          30

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<400> 216

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ser Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
          20          25          30

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<400> 217

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Arg Asn Arg Ile
          20          25          30

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<222> (1)..(30)

<400> 218

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1          5          10          15

Met Ala Gly Lys Lys Tyr Leu Asn Ser Ile Arg Asn Arg Ile
          20          25          30

<210> 219
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 20 25 30  
  
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 Met Ala Arg Lys Lys Tyr Leu Asn Ser Ile Arg Asn Arg Ile  
 20 25 30  
  
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 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15  
  
 Met Ala Ser Lys Lys Tyr Leu Asn Ser Ile Arg Asn Arg Ile  
 20 25 30  
  
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 aagcagatgg ctgtaaagaa atatctggct gcagtcctag gcaaacgtta caagcaacgc 120  
 gttaaaaaca agtaatgact cgag 144

<210> 223  
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<210> 224  
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 gag 123

<210> 225  
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<220>  
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aagcagatgg ctgtaaagaa atatctggct gcagttctgt aatgactcga g 111

<210> 226  
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gag 123

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